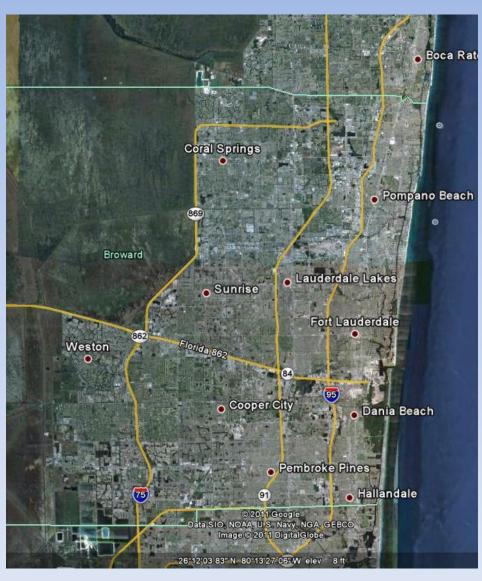
Broward County Near Road Monitoring Pilot Study



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U.S. EPA Region 4 – Air Monitoring Workshop April 27, 2011

Broward County



- Population: 1.75 million residents; over10 million visitors
- Five major interstates
 - •I-95 running north and south east side of the county.
 - •I-595 running east and west
 - •1-75 west side of the county
 - •Florida Turnpike running north and south parallel to I-95.
 - •Sawgrass expressway east of the everglades

The Plan

- Get the Major players on Board
 - Broward County
 - Director Pollution Prevention Remediation and Air Quality Division
 - Construction Management
 - Risk Management
 - Purchasing
 - County Attorney's Office
 - Real Properties
 - Facilities
 - Florida Department of Transportation (District 4)

Broward County - Pilot Study

- Phase I
 - Passive Monitoring (6-8 sites)
 - Duration 5-6 weeks

- Phase II
 - Permanent Monitoring Site Development
 - Collection of 6-12 months of data
 - Assist with TAD
 - Presentation to Monitoring community

Miami/Ft. Lauderdale/Palm Beach CBSA: Top 20 ModAADT, using local AADT and local HD counts

COSITE	POLITE	DECC FRM	DESC. TO	AADT	AADT	HD	IID.	NA-JAADT	Country
COSITE	ROUTE	DESC_FRM	DESC_TO	Rank	AADT	Rank	HD	ModAADT	County
862499	I-95	SR 842/BROWARD BLVD	SR 838/SUNRISE BLVD	1	306000	2	35129	622161	Broward
862493	I-95	SR 84 EB	SR 736/DAVIE BLVD	2	299000	7	16624	448616	Broward
862493	I-95	SR 818/GRIFFIN RD	86095000/EB-I595	2	299000	7	16624	448616	Broward
862493	I-95	86095000/EB-I595	SR 84 EB	2	299000	7	16624	448616	Broward
862498	I-95	SR 736/DAVIE BLVD	SR 842/BROWARD BLVD	3	296000	10	16458	444122	Broward
862455	I-95	SR 822/SHERIDAN ST	SR 848/STIRLING RD	4	281000	16	15624	421616	Broward
862500	I-95	SR 838/SUNRISE BLVD	SR 816/OAKLAND PARK	5	276000	20	15346	414114	Broward
870572	SR-826	N/A	Bridge No-870964	9	260000	11	16380	407420	Miami-Dade
862458	I-95	SR 848/STIRLING RD	SR 818/GRIFFIN RD	6	270000	23	15012	405108	Broward
862394	I-95	SR 824/PEMBROKE RD	SR820/HOLLYWOOD BLVD	7	267000	25	14845	400605	Broward
862454	I-95	SR820/HOLLYWOOD BLVD	SR 822/SHERIDAN ST	8	266000	26	14790	399110	Broward
862504	I-95	SR-814/ATLANTIC BLVD	COPANS RD	16	224000	5	17875	384875	Broward
862501	I-95	SR 816/OAKLAND PARK	SR 870/COMMERCIAL	7	267000	55	11454	370086	Broward
932191	I-95	Bridge No-930189	CONGRESS AVE	24	194000	4	18818	363362	Palm Beach
932191	I-95	N/A	Bridge No-930189	24	194000	4	18818	363362	Palm Beach
932191	I-95	PALMETTO PARK RD	N/A	24	194000	4	18818	363362	Palm Beach
862502	I-95	CYPRESS CREEK RD	SR-814/ATLANTIC BLVD	15	225000	24	15008	360072	Broward
862502	I-95	SR 870/COMMERCIAL	CYPRESS CREEK RD	15	225000	24	15008	360072	Broward
860331	I-95	SR 858/HALLANDALE	SR 824/PEMBROKE RD	11	236138	39	12704	350474	Broward
862487	I-95	DADE CO. LN.	SR 858/HALLANDALE	12	232000	37	12899	348091	Broward

Passive Monitoring Sites

- Selected 7 locations
 - PSD #1 I-95 SB north of Atlantic Blvd (High HD Traffic Counts)
 - PSD#2 I-95 SB south of Sunrise Blvd (permanent site and transect site).
 - PSD #3 I-95 NB south of Sunrise Blvd
 - PSD #4 I-95 SB north of Stirling Road
 - PSD #5 I-95 SB north of Sheridan Street
 - PSD #6 I-95 SB north of Pembroke Road
 - PSD #7 Site 25 Dania Beach (NO2, Ozone, Atox)

Passive Monitoring Sites

Status – It is never easy in Broward County

OAwaiting General Permits from FDOT

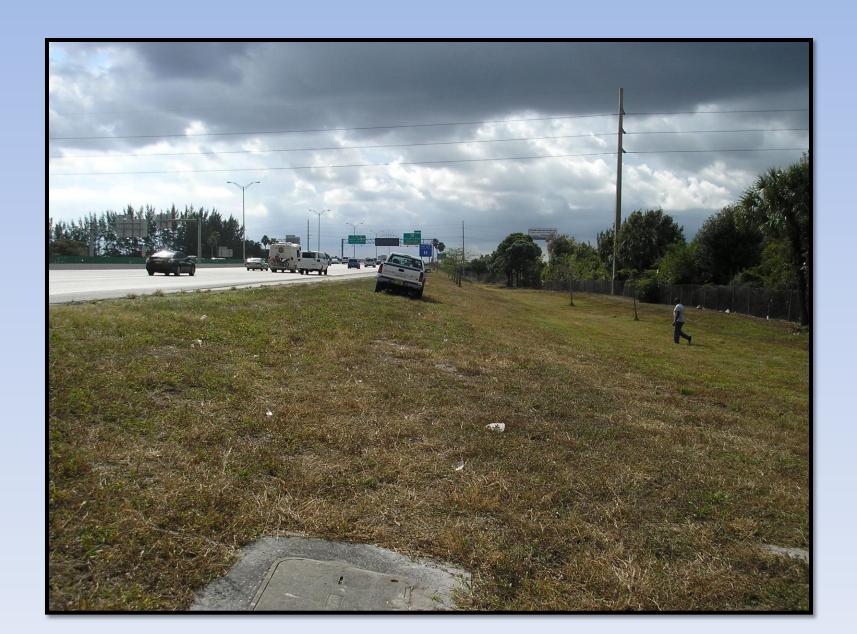
- •Submitted to permit office on March 15, 2011
- •Minimum 30 days to process
- Projected start-up
 - •Deploy May 7, 2011 -Ship first batch of samples May 14, 2011



Selecting a Permanent Site

- Criteria
 - Siting Requirements
 - Safety
 - Accessibility
 - Space

Permanent Site – 1-95 South of Sunrise Boulevard



Permanent Site - I-95 South of Sunrise Boulevard

Highest Traffic Counts

- •Ranked #1 AADT Traffic Counts
- •Ranked #2 HD Traffic Counts

Space

- •FDOT requires clearance from their clear zone (36 feet).
- •About 100 feet available.
- •Less than 50m sitiing possible

Meteorology

- •Site is West of I-95 (winds are predominate out of the east).
- •Terrain
 - Flooding possibilities

Safety

- Accessible by Sunrise Blvd
- No barriers



Permanent Site – I-95 South of Sunrise Boulevard

- Status It is never easy in Broward County
 - − Site selected ☺
 - Working on a construction agreement with the State of Florida Department of Transportation.
 - 3 month process after receipt of completed agreement
 - Construction Management assigned a Project
 Administrator
 - Issues
 - Purchasing
 - Risk Management
 - Permits
 - Survey of property